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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/736,615	12/14/2000	Heather Lea Stickler	10007356-1	8911	
7:					
	ACKARD COMPANY	EXAMINER			
Intellectual Property Administration P. O. Box 272400			ALCALA, JOSE H		
Fort Collins, Co	O 80527-2400	ART UNIT	PAPER NUMBER		
			2827		
			DATE MAILED: 08/26/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	•					9/h			
	1		Ap	plication No.	Applicant(s)				
			09	9/736,615	STICKLER ET AL.				
	Offic	e Action Summary	Ex	aminer	Art Unit				
	ø		Jo	se H Alcala	2827				
Perio	The MA d for Reply	LING DATE of this commu	nication appears	on the cover sheet	with the correspondence addr	ress			
TI - - - -	HE MAILING Extensions of time after SIX (6) MON [*] If the period for rep. If NO period for rep. Failure to reply with Any reply received earned patent term	D STATUTORY PERIOD F DATE OF THIS COMMUN may be available under the provision THS from the mailing date of this com ly specified above is less than thirty (oly is specified above, the maximum so nin the set or extended period for repl by the Office later than three months adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). munication. 30) days, a reply withi tatutory period will ap y will, by statute, caus	In no event, however, may n the statutory minimum of t ply and will expire SIX (6) M e the application to become	a reply be timely filed thirty (30) days will be considered timely. ONTHS from the mailing date of this com. ABANDONED (35 U.S.C. § 133).	munication.			
1)	Respon	sive to communication(s) f	led on <u>10 June</u>	<u>2002</u> .					
2a)	☐ This act	ion is FINAL .	2b)⊠ This ad	ction is non-final.					
ĺ	Since th closed in osition of Cla	n accordance with the prac	n for allowance tice under <i>Ex p</i>	except for formal noarte Quayle, 1935 (natters, prosecution as to the C.D. 11, 453 O.G. 213.	merits is			
4)	⊠ Claim(s)	1-11 is/are pending in the	application.						
	4a) Of the	above claim(s) is/a	re withdrawn fr	om consideration.					
5)	Claim(s)	is/are allowed.							
6)	⊠ Claim(s)	<u>1-11</u> is/are rejected.							
7)	Claim(s)	is/are objected to.							
8)	Claim(s)	are subject to restri	ction and/or ele	ction requirement.					
Appli	cation Paper	S							
		fication is objected to by th							
10)	☐ The drawi	ng(s) filed on is/are	a) ☐ accepted	or b) objected to by	y the Examiner.				
		· ·	•	•	eyance. See 37 CFR 1.85(a).				
11)					disapproved by the Examiner.				
40)		ed, corrected drawings are re							
		or declaration is objected to	by the Examir	ner.					
	_	J.S.C. §§ 119 and 120							
13)		dgment is made of a clain	for foreign price	ority under 35 U.S.C	C. § 119(a)-(d) or (f).				
		☐ Some * c)☐ None of:							
		rtified copies of the priority							
		rtified copies of the priority							
	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14)[·	C. § 119(e) (to a provisional a	pplication).			
	a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
	ment(s)			, : :::::: 50 0.0.					
2) 🔲 1	Notice of Draftspe	ces Cited (PTO-892) erson's Patent Drawing Review (I osure Statement(s) (PTO-1449) F		5) Notice	w Summary (PTO-413) Paper No(s). of Informal Patent Application (PTO-				

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DETAILED ACTION

Information Disclosure Statement

1. The sheets of the figures submitted in the IDS, were stuck together when received. Those sheets got damaged when they were separated one from the other. Applicant is required to submit new copies of the figures in order to have them in the file. It is not clear which IDS reference they belong to.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1,5,6 and 11 rejected under 35 U.S.C. 102(b) as being anticipated by the article: "Sun slashes prices, boosts performance across workstation product line" dated May 5,1998 and the figures of the Sun Ultra 60 workstation.

Regarding Claim 1, the figures of the Sun Ultra 60 workstation teach a PCSB assembly comprising: a PCSB; a first plurality of LVD SCSI bus signal trace pairs (left part of Figure 1) formed in said PCSB; and a second plurality of LVD SCSI bus signal trace pairs (right part of Figure 1) formed in said PCSB and positioned next adjacent one another for the entire length thereof comprising a RESET signal trace pair, a SELECT signal trace pair and a BUSY signal trace pair (See Figure 4).

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Regarding Claim 5, the figures of the Sun Ultra 60 workstation teach that the PCSB comprises a first exterior surface layer (surface shown in figure 1) and a second exterior surface layer (surface shown in figure 2) opposite said first exterior surface layer and wherein said first plurality of LVD SCSI bus signal trace pairs are positioned in said first surface layer and wherein said second plurality of LVD SCSI bus signal trace pairs are positioned at least partially in said second exterior surface pair.

Regarding Claim 6, the figures of the Sun Ultra 60 workstation teach that a second plurality of signal trace pairs are positioned partially in said first exterior surface layer and partially in said second exterior surface layer. (See figures 1 and 2)

Regarding Claim 11, the figures of the Sun Ultra 60 workstation teach a PCSB comprising; a first surface layer comprising a plurality of LVD SCSI bus signal trace pairs (See Figure 1); and a second surface layer opposite said first surface layer (See figure 2) comprising at least a portion of at least one signal trace pair selected from the group of: a LVD SCSI bus RESET signal trace pair; a LVD SCSI bus SELECT signal trace pair and a LVD SCSI bus BUSY signal trace pair; and excluding all LVD SCSI bus signal trace pairs other than those in said group. See Figure 4.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 2-4, 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over the article: "Sun slashes prices, boosts performance across workstation product line" dated May 5,1998 and the figures of the Sun Ultra 60 workstation.

Regarding Claim 2, the figures of the Sun Ultra 60 workstation teach all the elements of the instant claimed invention as stated supra for claim 1, but fails to explicitly teach that the minimum spacing of any signal trace pair in said second plurality of signal trace pairs from any signal trace pair in said first plurality of signal trace pairs is about 0.015 in. It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the minimum spacing of any signal trace pair in said second plurality of signal trace pairs from any signal trace pair in said first plurality of signal trace pairs is about 0.015 in, thus separating the pairs from both pluralities of trace pairs to avoid any interference from one to the other. In addition, it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or working ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Regarding Claim 3, the figures of the Sun Ultra 60 workstation fails to explicitly teach that the minimum spacing between any two adjacent signal trace pairs of said second plurality of LVD SCSI bus signal trace pairs is about 0.008 in. It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the minimum spacing between any two adjacent signal trace pairs of said second plurality of LVD SCSI bus signal trace pairs is about 0.008 in, thus separating the trace pairs from each other to avoid any interference between them. In addition, it has been held that where the general conditions of a

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claim are disclosed in the prior art, discovering the optimum or working ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Regarding Claim 4, the figures of the Sun Ultra 60 workstation fails to explicitly teach that the minimum internal spacing between traces of a signal trace pair of any of said second plurality of LVD SCSI signal trace pairs is about 0.006 in. It would have been obvious to decrease the minimum internal spacing between traces of a signal trace pair of any of said second plurality of LVD SCSI signal trace pairs to about 0.006 in, in order to improve integration of the circuit. In addition, it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or working ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Regarding Claim 7, the figures of the Sun Ultra 60 workstation fails to explicitly teach that said second plurality of signal trace pairs are positioned entirely in said second exterior surface layer. It would have been obvious to one of ordinary skill in the art at the time the invention was made to make said second plurality of signal trace pairs to be positioned entirely in said second exterior surface layer, since it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ

Regarding Claim 8, the figures of the Sun Ultra 60 workstation fails to explicitly teach a first exterior surface layer and a second exterior surface layer opposite said first exterior surface layer and wherein said first plurality of LVD SCSI bus signal trace pairs are positioned in said first surface layer and wherein said second plurality of LVD SCSI bus signal trace pairs are positioned at least partially in said second exterior surface

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pair. It would have been obvious to one of ordinary skill in the art at the time the invention was made to make said second plurality of signal trace pairs to be positioned entirely in said second exterior surface layer, since it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ

Regarding claim 9, the figures of the Sun Ultra 60 workstation teach that said second plurality of signal trace pairs are positioned partially in said first exterior surface layer and partially in said second exterior surface layer. (See figures 1 and 2)

Regarding Claim 10, the figures of the Sun Ultra 60 workstation fails to explicitly teach that said second plurality of signal trace pairs are positioned entirely in said second exterior surface layer. It would have been obvious to one of ordinary skill in the art at the time the invention was made to make said second plurality of signal trace pairs to be positioned entirely in said second exterior surface layer, since it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jose H Alcala whose telephone number is (703) 305-9844. The examiner can normally be reached on Monday to Friday.

7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Talbott can be reached on (703) 305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JHA August 26, 2002 MILLY POLON 8-26-62 ALBERT W. PALADINI PRIMARY EXAMINER

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